



UNIVERSITY OF WYOMING-NATIONAL PARK SERVICE RESEARCH CENTER

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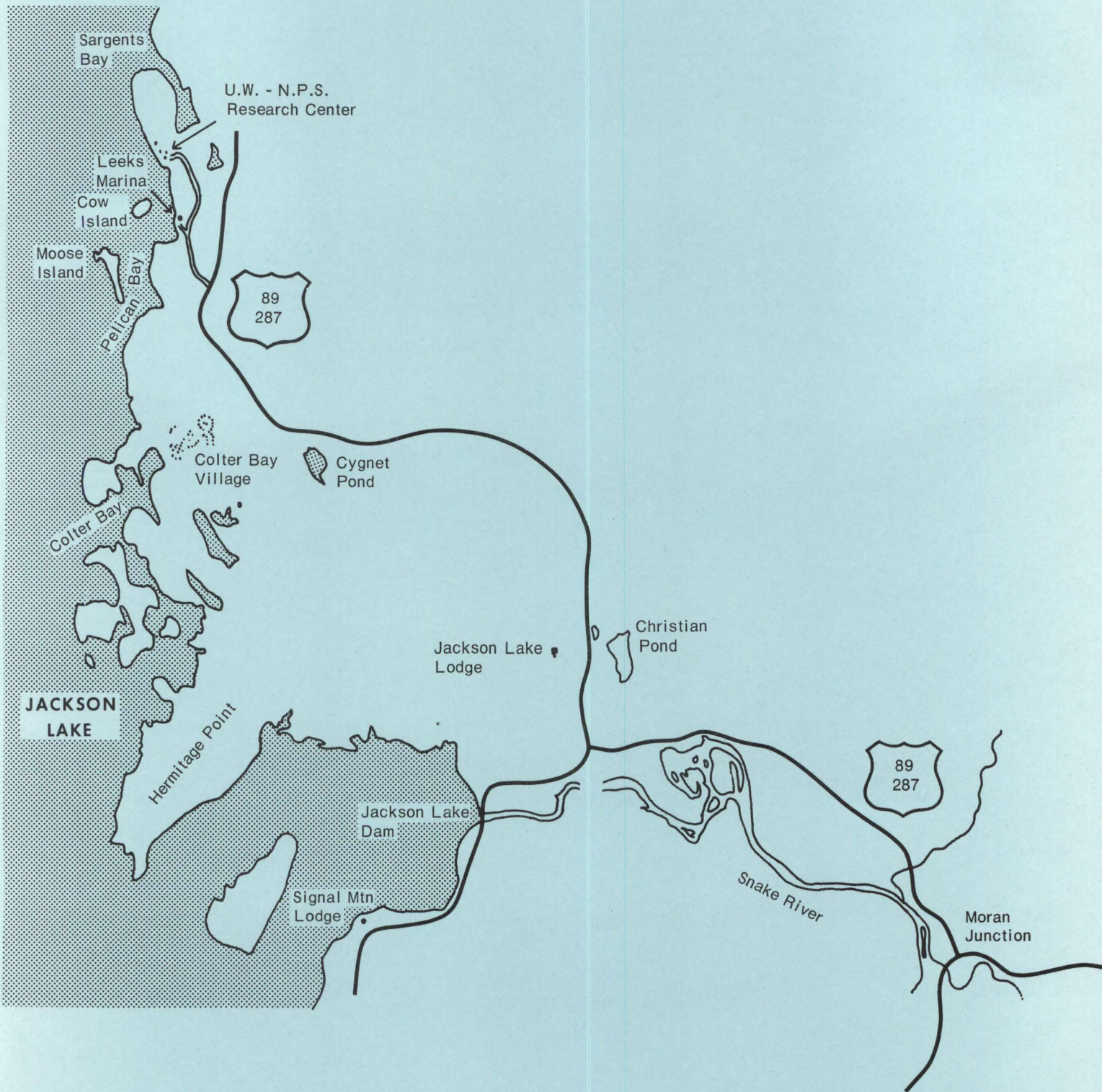
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University of Wyoming  
National Park Service Research Center  
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## PREFACE

The University of Wyoming-National Park Service Research Center sponsors and supports substantial and significant research in the biological, physical and social sciences which can best be done in National Park areas of Wyoming, Montana, North Dakota and South Dakota because of the unique features those areas possess. Administratively, the Research Center is governed by an 8-member Steering Committee composed of 4 University of Wyoming representatives and 4 National Park Service representatives. The Dean of the Arts and Sciences College serves as Committee Chairperson. A faculty member of the University of Wyoming is Director of the Research Center program and is administrator of the Research Center facilities. Also, the Director is an ex-officio member of the Steering Committee. The Research Center physical plant consists of laboratory, library, living, seminar, shop and storage accommodations. Those facilities are normally operational from mid-May to mid-October.

The Director annually calls for research proposals in early September from institutions and individuals requesting such notification. Included with this solicitation are 1) guidelines for proposal preparation, 2) housing and laboratory information, 3) Research Center operational policies, and 4) the Research Center operational calendar. Topics for research include 1) those research problems identified by Park personnel, and 2) research problems suggested by outside individuals on basic or applied proposals they consider to be timely and important and uniquely appropriate to the National Park areas of the four states concerned. While many of the research topics will be directed at solution to management problems and improvement of interpretation information, there will be a concerted effort to encourage and maintain support for a substantial basic research program. Research projects may extend beyond the exact boundaries of the Park areas to work on problems common to the Park lands and adjacent lands. Limited funds are available for support of meritorious research projects. Also, research studies may be funded by other institutions or by individuals.

Investigator(s) submitting proposals to the Research Center should be a faculty member of an academic institution or a full-time member of a governmental research institution. Scientific and fiscal accountability must be assigned to an academic or governmental research institution. Normally all proposals should reach the Director no later than mid-November. The decisions of the Steering Committee concerning approval and where applicable, funding, are released no later than early March.

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STEERING COMMITTEE

- Mr. Neil J. Reid, Chief Scientist, Rocky Mountain Region, National Park Service;
- Mr. Edwin Rothfuss, Superintendent, Mount Rushmore National Monument;
- Mr. Jack Stark, Superintendent, Grand Teton National Park, National Park Service;
- Mr. John Townsley, Superintendent, Yellowstone National Park, National Park Service;
- Dr. Donald J. Brosz, Department of Agricultural Engineering, University of Wyoming;
- Dr. Raymond Jacquot, Department of Electrical Engineering, University of Wyoming;
- Dr. Jason L. Lillegraven, Department of Geology, University of Wyoming;
- Dr. Joan Wadlow, Dean, Arts and Sciences College, University of Wyoming and Steering Committee Chairperson;
- Dr. Kenneth L. Diem, Ex-officio Member, and Director, UW-NPS Research Center.

## DIRECTOR'S REPORT

Forty five proposals were submitted to the Research Center for the 1980-81 season. Nineteen of these proposals submitted by 18 investigators from 11 institutions were approved. Of these 19 proposals, 14 received grant support through the Research Center. A summary of the sources of research funding, recipient institution and location of the research is presented in Table 1. Eight of these studies were conducted by researchers residing at the Research Center in Grand Teton National Park. Two researchers from outside North America conducted research at the Center's facilities in Grand Teton National Park, Dr. William Watts, Trinity College, Dublin, Ireland and Dr. Brian Freeman, University of the West Indies, Jamaica.

Acquisition of a new 4-wheel drive, 1-ton pickup improved the Center's capability to transport a wider variety of field equipment, as well as, transport heavy supplies and materials for the Center's physical operations.

New small boat and trailer storage facilities were constructed in the Johnson Garage. The structural members used for this project also served to reinforce the general garage structure to withstand greater snow loading in winter. A number of floor joists were reinforced and increased ventilation was developed to prolong the structural integrity of the Berol House.

Following a requested fire inspection by the Park, a small number of deficiencies were noted and corrected. A new 500 gallon septic tank system was installed for the Sun Room Cabin.

An International Crane Conference sponsored by the U.S. Fish and Wildlife Service was held at the Center. Over 80 participants attended those meetings. One individual from Japan and several from Canada were in attendance. In addition, the fall REACT meeting involving Wyoming and Federal agencies concerned with recreational and related natural resources management was held at the Center.

The Center organized a meeting held with the Bighorn National Recreation Area, the Bureau of Reclamation, Wyoming Game and Fish Department, Bureau of Land Management and the Wyoming Cooperative Fishery and Wildlife Research Unit at Lovell, Wyoming. This meeting addressed the need for integrated Natural resource studies in the Big Horn Basin and established a framework for improved communication. In addition, a priority of potential research was formulated.

Table 1. Funding sources, recipient institution and location of research conducted through the U.W.-N.P.S. Research Center, 1981.

		Funding Source				
		National Park Service		Other Grants or Non-Grant Support		
Recip. Instit.	Location of Res.	Recip. Instit.	Location of Res.	Recip. Instit.	Fund Source	Location of Res.
U. Wyo.	Glacier N.P.	Colo. S.U.	Badlands	U. New Mex.	N.S.F.	G.T.N.P.
U. Wyo.	Glacier N.P.	Colo. S.U.	G.T.N.P.	U. New Orleans		G.T.N.P.
U. Wyo.	G.T.N.P.	U. Utah	G.T.N.P.	U. Wash.	Private	G.T.N.P.
U. Wyo.	G.T.N.P.	U. Colo.	Wind Cave N.P.	U. Wash.	U. Wash & N.S.F.	G.T.N.P.
U. Wyo.	G.T.N.P.	Iowa S.U.	Wind Cave N.P.	U. Wash.	U. Wash & Priv.	G.T.N.P.
U. Utah	G.T.N.P.	Mich. Tech.	Wind Cave N.P.			
Loma Linda Univ.	Fossil Butte	Mich. Tech.	Y.N.P.	San. Fran S.U.		G.T.N.P.
		U. Utah	Y.N.P.	U. Wyo.	Priv. & N.P.S.	Y.N.P.
		Loma Linda Univ.	Fossil Butte	U. Wyo.	Priv. & N.P.S.	G.T.N.P.
		U. Wyo.	Glacier	U. Wyo.	U. Wyo.	G.T.N.P. & Agr. Exp. Sta.

## RESEARCH PROJECT REPORTS

The following project reports have been prepared primarily for administrative use. The information reported is of a preliminary nature and may be subject to change as the investigations continue. Consequently, the information presented may not be used without written permission from the author(s).









BADLANDS NATIONAL MONUMENT

HANSEN



